

Table P-12: 1999 Key Source Tier 1 Analysis - Level Assessment

IPCC Source Categories	Direct Greenhouse Gas	Base Year		Current Year Level	Cumulative Assessment Total
		Estimate (Tg CO ₂ Eq.)	Estimate (Tg CO ₂ Eq.)		
CO ₂ Emissions from Stationary Combustion - Coal	CO ₂	1,692.60	1,956.91	0.29	0.29
Mobile Combustion: Road & Other	CO ₂	1,235.49	1,478.53	0.22	0.50
CO ₂ Emissions from Stationary Combustion - Gas	CO ₂	952.76	1,105.01	0.16	0.66
CO ₂ Emissions from Stationary Combustion - Oil	CO ₂	662.46	658.39	0.10	0.76
Direct N ₂ O Emissions from Agricultural Soils	N ₂ O	193.49	216.49	0.03	0.79
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	213.41	203.09	0.03	0.82
Mobile Combustion: Aviation	CO ₂	176.88	186.69	0.03	0.85
Fugitive Emissions from Oil & Gas Operations	CH ₄	147.64	140.84	0.02	0.87
CH ₄ Emissions from Enteric Fermentation in Domestic Livestock	CH ₄	127.88	124.51	0.02	0.89
CO ₂ Emissions from Other Industrial Processes	CO ₂	123.65	107.90	0.02	0.90
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N ₂ O	73.60	79.79	0.01	0.92
Fugitive Emissions from Coal Mining and Handling	CH ₄	87.12	63.69	0.01	0.93
Mobile Combustion: Marine	CO ₂	59.43	63.02	0.01	0.93
Mobile Combustion: Road & Other	N ₂ O	48.86	56.44	0.01	0.94
Emissions from Substitutes for Ozone Depleting Substances	Several	0.94	51.28	0.01	0.95
CO ₂ Emissions from Cement Production	CO ₂	33.28	39.99	0.01	0.96
CH ₄ Emissions from Manure Management	CH ₄	29.19	37.56	0.01	0.96
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	34.98	30.41	<0.01	0.97
CH ₄ Emissions from Wastewater Handling	CH ₄	24.25	28.35	<0.01	0.97
Indirect CO ₂ Emissions from CH ₄ Oxidation	CO ₂	30.90	27.00	<0.01	0.97
CO ₂ Emissions from Waste Incineration	CO ₂	14.09	21.84	<0.01	0.98
N ₂ O Emissions from Nitric Acid Production	N ₂ O	17.85	20.12	<0.01	0.98
Non-CO ₂ Emissions from Stationary Combustion	N ₂ O	12.82	14.60	<0.01	0.98
N ₂ O Emissions from Manure Management	N ₂ O	16.03	17.15	<0.01	0.99
SF ₆ Emissions from Electrical Equipment	SF ₆	31.23	15.51	<0.01	0.99
CO ₂ Emissions from Lime Production	CO ₂	11.24	13.47	<0.01	0.99
PFC Emissions from Aluminum Production	PFCs	18.11	8.94	<0.01	0.99
N ₂ O Emissions from Wastewater Handling	N ₂ O	7.04	8.36	<0.01	0.99
CH ₄ Emissions from Rice Production	CH ₄	7.12	8.29	<0.01	0.99
PFC, HFC, and SF ₆ Emissions from Semiconductor Manufacturing	SF ₆	2.86	7.73	<0.01	0.99
Non-CO ₂ Emissions from Stationary Combustion	CH ₄	7.90	7.34	<0.01	1.00
N ₂ O Emissions from Adipic Acid Production	N ₂ O	14.89	7.68	<0.01	1.00
SF ₆ Emissions from Magnesium Production	SF ₆	5.50	6.11	<0.01	1.00
Mobile Combustion: Road & Other	CH ₄	4.67	4.15	<0.01	1.00
CO ₂ Emissions from Natural Gas Flaring	CO ₂	5.51	6.68	<0.01	1.00
Mobile Combustion: Aviation	N ₂ O	1.71	1.82	<0.01	1.00
CH ₄ Emissions from Other Industrial Processes	CH ₄	1.19	1.68	<0.01	1.00
CH ₄ Emissions from Agricultural Residue Burning	CH ₄	0.68	0.76	<0.01	1.00
N ₂ O Emissions from Agricultural Residue Burning	N ₂ O	0.37	0.44	<0.01	1.00
Mobile Combustion: Marine	N ₂ O	0.36	0.43	<0.01	1.00
N ₂ O Emissions from Waste Incineration	N ₂ O	0.29	0.23	<0.01	1.00
Mobile Combustion: Aviation	CH ₄	0.16	0.15	<0.01	1.00
Mobile Combustion: Marine	CH ₄	0.07	0.08	<0.01	1.00
CO ₂ Emissions from Stationary Combustion - Geothermal Energy	CO ₂	0.22	0.04	<0.01	1.00
TOTAL		6,130.72	6,829.49	1.00	

Note: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis.